

CITY OF BATH

Mess^r W. Gray & Co

No 948

Profile

See plan of decks app^d 20.10.25

AB

WEST HARTLEPOOL Rpt 16411.

W155-0016



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Lloyd's Register
Foundation

Decks

CITY OF BATH

Mess^{rs} W. Gray & Co

No 948

Deck Plans

WEST HARTLEPOOL

Ref 16411.

W1155-0011



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Lloyd's Register
Foundation

Midship Section

CITY OF BATH

Mess^{rs} W. Gray & Co

No 948

Midship Section

With Alternative Scantlings
for Special Steel

Approved 8.9.25

See later Copy

WEST PIRTLEROOG

Rpt 16411

W155-0015



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Foundation

Midship Section

CITY OF BATH

Mess^r. W. Gray & Co

No 948

Midship Section

Approved 15.10.25

WEST HARTLEPOOL Rpt 16411.

X1155-0012



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MAIN BOILERS

CENTRAL MARINE
ENGINE WORKS

W.M. GRAY & CO. LTD
S.S. NO 978.

| |
|---------------------|
| N ^o 3679 |
| LLOYD'S TEST |
| 448 LBS |
| V.V.P 265 LBS |
| 24.2.26 TRDS |

S. S. City of Bath

WEST HARTLEPOOL

Rpt 16411.

W1155-0013

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BOILER NO. 978.

WORKING PRESSURE = 265 lbs/□.

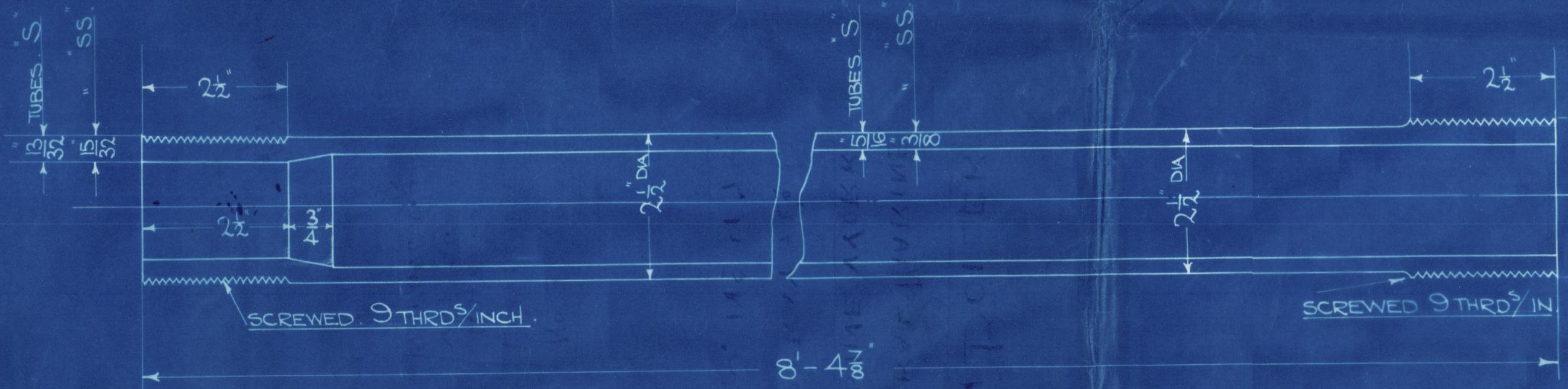
TEST = 448 lbs/□.

2 OFF.

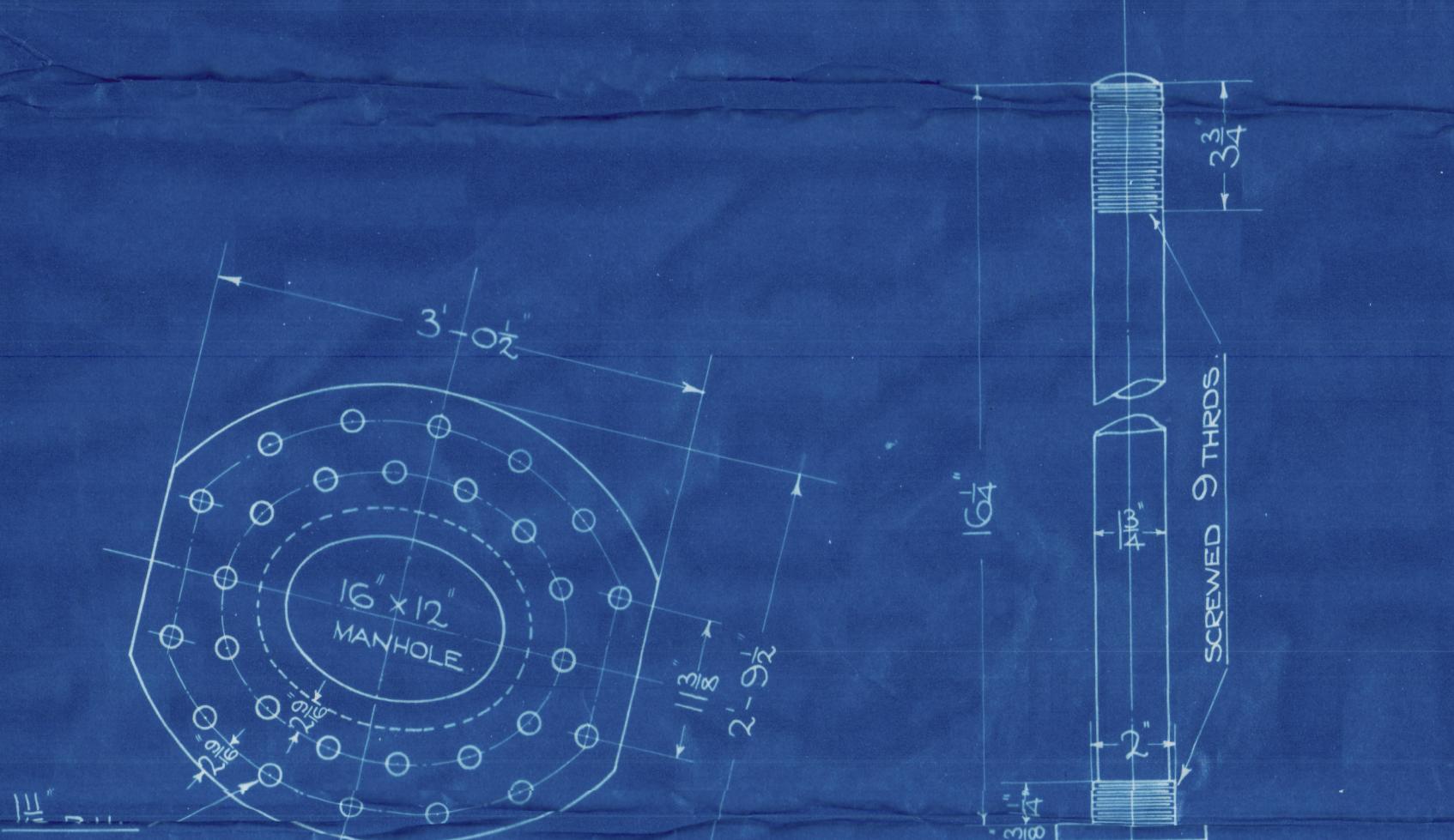
LLOYDS SURVEY.

SCALE 1:1 FOOT.

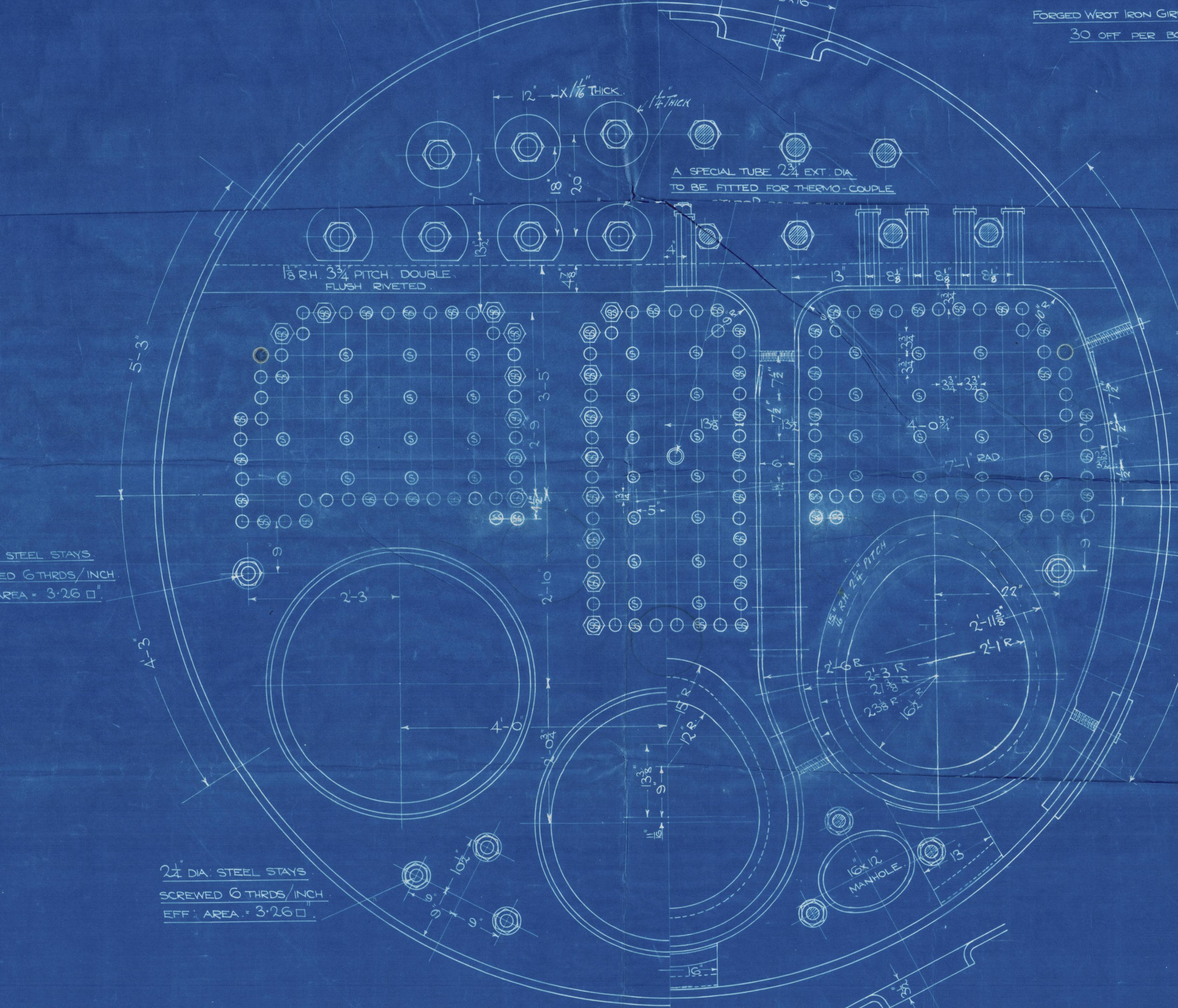
TO BE FITTED WITH HOWDEN'S SYSTEM OF FORCED DRAUGHT.



DETAIL OF STAY TUBES.



FORGED WROUGHT IRON GIRDERS STAYS
30 OFF PER BOILER



No 978.

CENTRAL MARINE ENGINE WORKS,
WEST HARTLEPOOL.

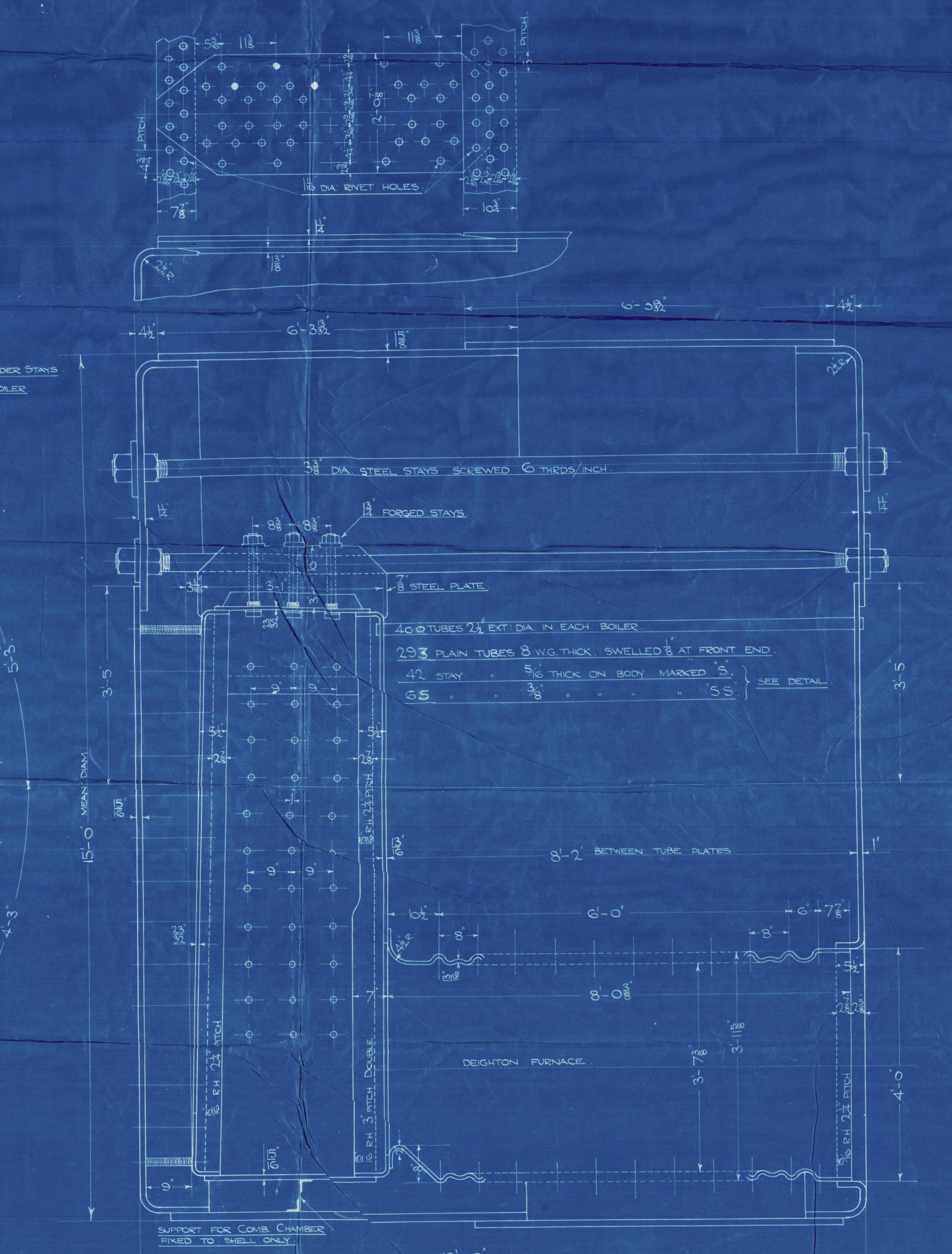
CENTRAL MARINE
DRAWING OFFICES
11 NOV 1900
No. 41268A
ENGINE WORKS, WEST HARTLEPOOL

| LIMIT OF TENSILE. | | |
|----------------------|-----------|----------------------|
| SHELL & BUTT STRAPS | 31 TO 34 | SIEMENS MARTIN STEEL |
| GIRDERS PLATES | 28 - 32 | " " |
| ALL OTHER PLATES | 26 - 30 | " " |
| LONGITUDINAL STAYS | 28 - 32 | " " |
| SCREWED STAYS | 26 - 30 | " " |
| RIVET BARS | 26 - 30 | " " |
| FORGED GIRDERS STAYS | 2 1/4 MIN | WROUGHT IRON |
| TUBES | - | " " |

| BOILER PARTICULARS. | |
|----------------------------|--|
| 1 BOILER. | 2 BOILERS. |
| HEATING SURFACE OF TUBES. | 2125 $\frac{1}{2}$ 4250 $\frac{1}{2}$ |
| FURNACES | 170 " |
| COMB CHAMBERS | 250 " |
| BACK TUBE PLATES | 42 " |
| FRONT | 34 " |
| TOTAL. | 2627 $\frac{1}{2}$ 5254 $\frac{1}{2}$ |
| GRATE SURFACE (5' 3" BARS) | 58.6 $\frac{1}{2}$ 117.2 $\frac{1}{2}$ |
| HS RATIO GS | 1:44.7 |

| SCREWED STAYS | | | |
|---------------|--------|--------|--------------------|
| MARK | DIA. | THREAD | EFF AREA |
| ○ | 1 3/4" | 9 | 2.03 $\frac{1}{2}$ |
| ◎ | 2 | 9 | 2.71 $\frac{1}{2}$ |

ALL SCREWED STAYS TO BE NUTTED AT BOTH ENDS EXCEPT AT SHELL.



91.889
11/11/25

R

91268
97.8

C. MAIN BOILER

CENTRAL MARINE
ENGINE WORKS

VVM GRAY & CO LTD

SS No 978

№ 3649
LLOYDS TEST
448 LBS
V.V.R. 265 LBS
24.2.26 RDS

S. S "City of Bath".
WEST HARTLEPOOL Rpt 16411

X 155-0014



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Foundation

BOILER N° 978C.

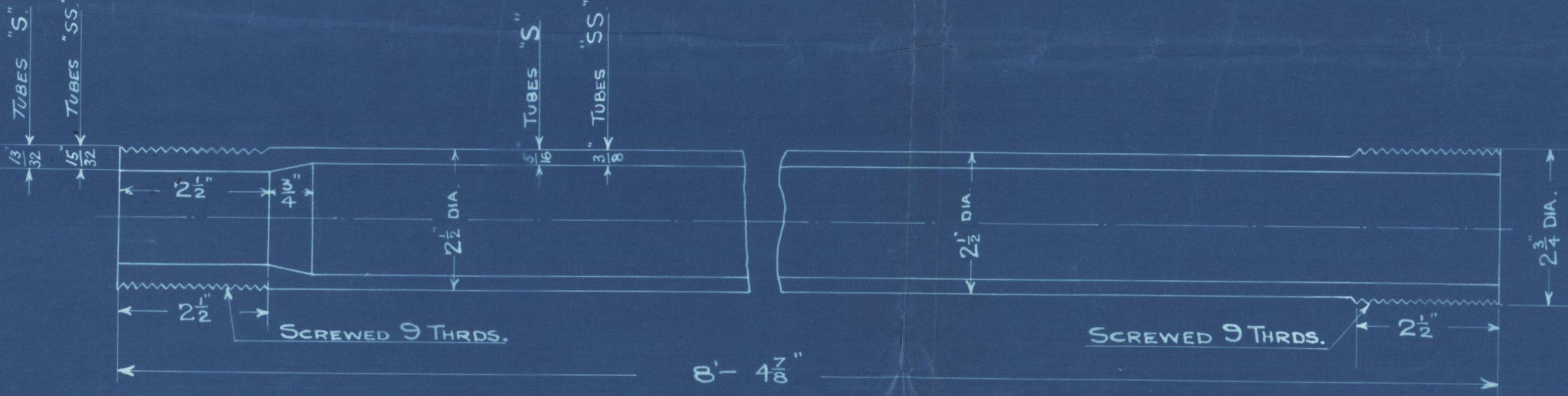
WORKING PRESSURE = 265 LBS PER SQ. IN.

TEST " = 448 " "

1 OFF. LLOYD'S SURVEY

SCALE 1" = 1FOOT.

TO BE FITTED WITH HOWDEN'S SYSTEM OF FORCED DRAUGHT.



DETAIL OF STAY TUBES.



N° 978C.

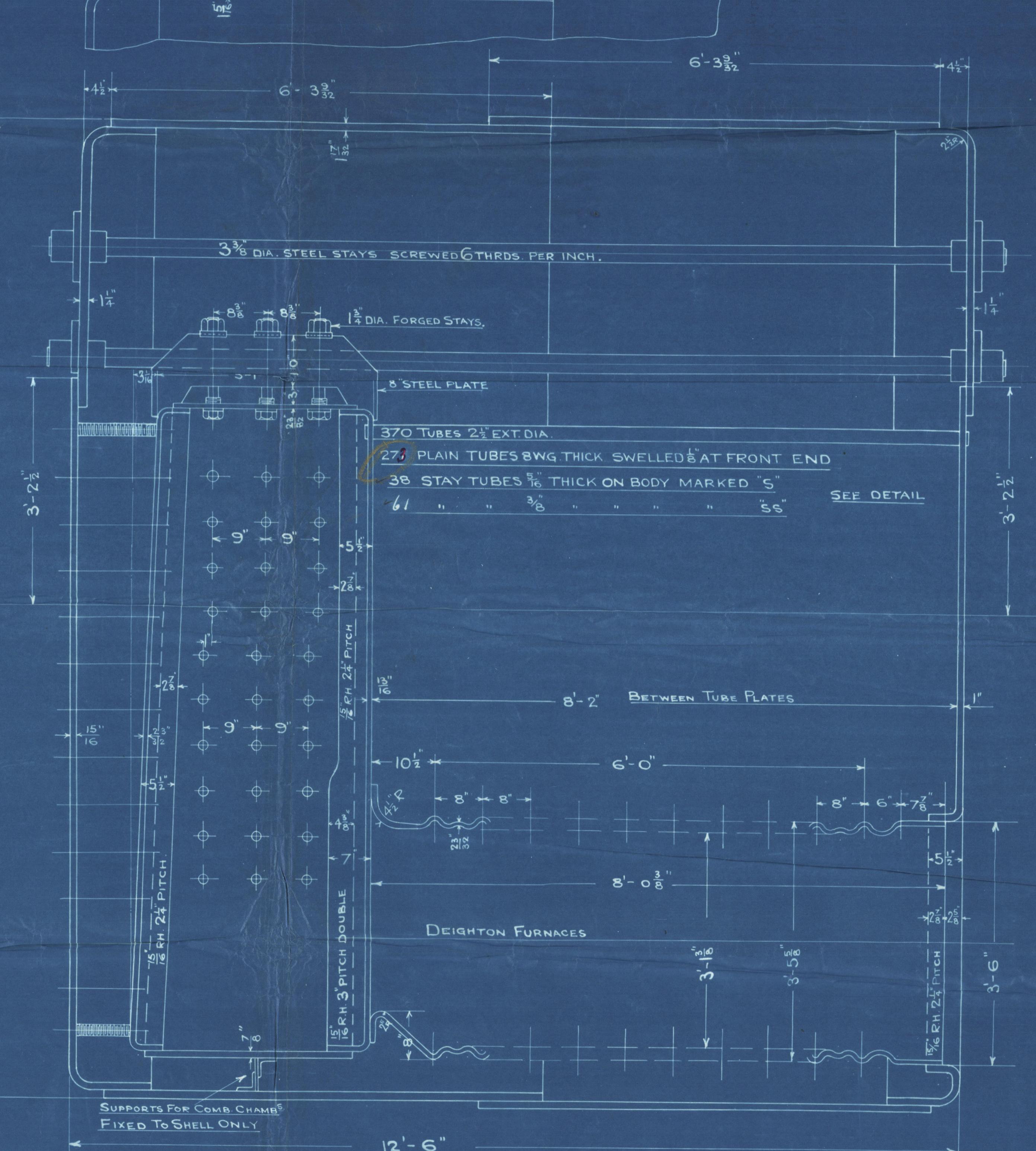
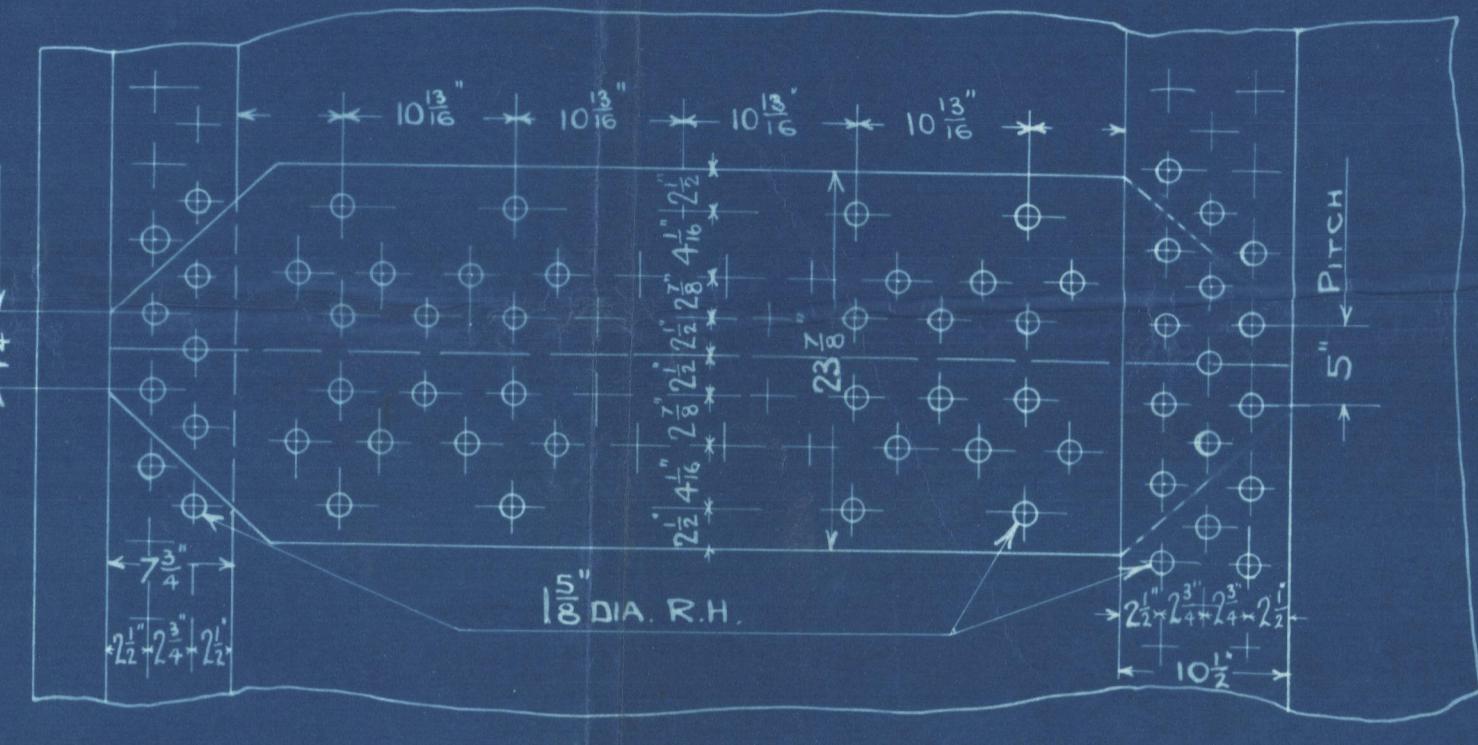
LIMITS OF TENSILES

| | |
|----------------------------|--|
| SHELL PLATES & BUTT STRAPS | 30 ² /34 TONS SIEMENS MARTIN STEEL |
| GIRDER PLATES | 28 - 32 " |
| OTHER PLATES | 26 - 30 " |
| LONGITUDINAL STAYS | 26 - 32 " |
| SCREWED " | 26 - 30 " |
| RIVET BARS | 26 - 30 " |
| FORGED GIRDER STAYS | 21 ¹ / ₂ TONS MIN WROUGHT IRON |
| TUBES | — " |

BOILER PARTICULARS.

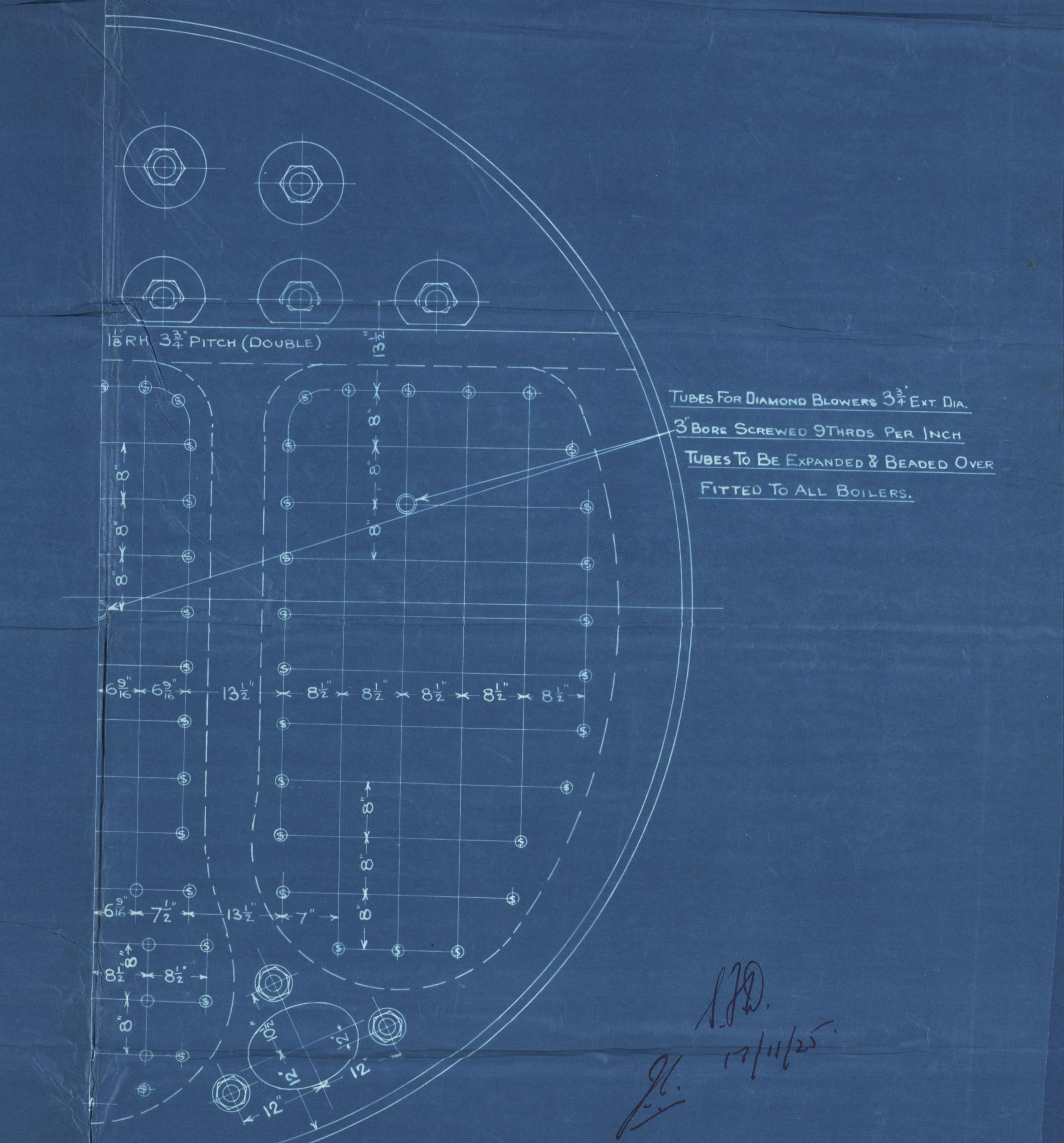
| | |
|--------------------------------|--------------------|
| HEATING SURFACE OF TUBES | 1980 $\frac{1}{2}$ |
| " " " FURNACES | 148 " |
| " " " COMB. CHAMB ² | 220 " |
| " " " BACK TUBE PLATES | 38 " |
| " " " FRONT " | 30 " |
| TOTAL | 2416 $\frac{1}{2}$ |
| GRATE SURFACE (5' 3" BARS) | 50 7 $\frac{1}{2}$ |
| RATIO HS GS | 47.5 |

17/11/21



| MARK. | DIA. | THREAD. | EFF. AREA. |
|-------|--------|---------|--------------------|
| ○ | 1 3/4" | 9 | 2.03 $\frac{1}{2}$ |
| ◎ | 2" | 9 | 2.71 $\frac{1}{2}$ |

ALL SCREWED STAYS TO BE NUTTED AT BOTH ENDS EXCEPT AT SHELL.



CENTRAL MARINE ENGINE WORKS,
WEST HARTLEPOOL.

GENERAL MARINE
DRAWING OFFICE
11 NOVEMBER
41269A
ENGINE WORKS WERE
REMOVED

R

578

41269

11/11/21

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